

AD-A088 384

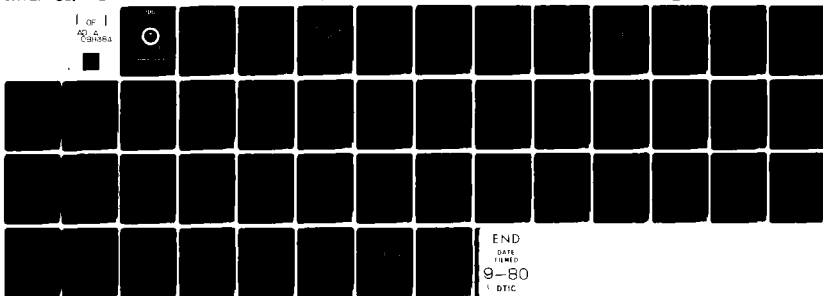
MARINE CORPS WASHINGTON DC
AIR OPERATIONS TASK ANALYSIS.(U)
AUG 79

F/6 5/9

UNCLASSIFIED

NL

1 OF 1
AD-A088 384



END
DATE
FILMED
9-80
DTIC

LEVEL II
AIR OPERATIONS
TASK ANALYSIS

11

AD A088384



Date: Aug '79

DTIC
ELECTE
S **D**
AUG 28 1980
E

DISTRIBUTION STATEMENT A

Approved for public release;
Distribution Unlimited

DDG FILE COPY

HEADQUARTERS, U.S. MARINE CORPS

OFFICE OF MANPOWER UTILIZATION

QUANTICO, VIRGINIA, 22134

HAWK0379

UNITED STATES MARINE CORPS

TASK ANALYSIS PROGRAM

QUESTIONNAIRE BOOKLET

INTRODUCTION

YOU HAVE BEEN SELECTED TO PARTICIPATE IN A STUDY ON THE BASIS OF YOUR CURRENT JOB ASSIGNMENT. THE INFORMATION YOU FURNISH WILL BE OF GREAT VALUE TO THE MARINE CORPS IN FUTURE DECISIONS ON: (1) OCCUPATIONAL FIELD STRUCTURE, (2) TRAINING, (3) CLASSIFICATION, AND (4) ASSIGNMENT POLICY.

THIS QUESTIONNAIRE WAS CONSTRUCTED FROM ON-THE-JOB OBSERVATIONS AND INTERVIEWS WITH MARINES PERFORMING DUTIES AND TASKS SIMILAR TO THOSE YOU PERFORM. IT IS DESIGNED TO DETERMINE WHAT YOU DO IN YOUR PRESENT JOB.

THIS IS NOT A TEST. NEITHER YOU, YOUR COMMANDER, NOR YOUR UNIT WILL BE EVALUATED, IN ANY WAY, ON THE INFORMATION YOU PROVIDE. YOUR INDIVIDUAL RESPONSES WILL BE HELD IN THE STRICTEST CONFIDENCE.

THE RESULTS OF THE INFORMATION YOU PROVIDE IN THIS QUESTIONNAIRE WILL BE OF BENEFIT TO YOU AND OTHER MARINES IN YOUR OCCUPATIONAL FIELD. THEREFORE, PLEASE BE AS STRAIGHTFORWARD, ACCURATE AND FRANK AS POSSIBLE. ALL RESPONSES SHOULD BE BASED ON YOUR PRESENT JOB ASSIGNMENT.

THERE ARE FIVE PARTS TO THE QUESTIONNAIRE:

PART I BACKGROUND INFORMATION SECTION
PART II TASK SECTION
PART III JOB SATISFACTION/DISSATISFACTION SECTION
PART IV WRITE-IN SECTION
PART V REMARKS SECTION

1

Accession for	
NTIS GRA&I	<input checked="checked" type="checkbox"/>
DDC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	<i>per</i>
<i>Letter on File</i>	
By _____	
Distribution/ _____	
Availability Codes	
Dist.	Avail and/or special
<i>A</i>	

GENERAL INSTRUCTIONS

- 1. READ ALL INSTRUCTIONS CAREFULLY.**
- 2. USE ONLY THE PENCIL PRESENTED TO YOU BY THE QUESTIONNAIRE ADMINISTRATOR TO MARK YOUR RESPONSE. DO NOT USE A PEN OR COLORED PENCIL.**
- 3. MARK ONLY THE RESPONSE BOXES AND CIRCLES IN THE FIRST 3 SECTIONS OF THE RESPONSE BOOKLET.**
- 4. IF IT IS NECESSARY TO CHANGE A RESPONSE, BE SURE TO ERASE IT COMPLETELY.**
- 5. YOU WILL BE GIVEN AS MUCH TIME AS YOU NEED TO COMPLETE THIS TASK SURVEY QUESTIONNAIRE.**
- 6. DO NOT FOLD OR CREASE THE RESPONSE BOOKLET.**
- 7. ASK YOUR SURVEY ADMINISTRATOR IF YOU HAVE ANY QUESTIONS REGARDING THE TASK BOOKLET OR THE CODED ANSWER BOOKLET.**

NOW TURN TO PAGE 3 OF THIS QUESTIONNAIRE BOOKLET FOR INSTRUCTIONS ON HOW TO COMPLETE PART I.

PART I - BACKGROUND INFORMATION SECTION

INSTRUCTIONS FOR COMPLETING PART I OF THE RESPONSE BOOKLET:

QUESTIONS IN THIS SECTION REQUIRE YOU TO BLACKOUT THE NUMBER OR FILL IN A CIRCLE FOR YOUR DESIRED RESPONSE.

E X A M P L E S

2 SEX

MALE ☒
FEMALE 2

18. DO YOU HAVE A MILITARY
DRIVERS LICENSE.

YES 1
NO ☒

EXAMPLE MOS (3215)

6.	PRIMARY	MOS
0	0	0
1	1	<input checked="" type="radio"/>
2	<input checked="" type="radio"/>	2
<input checked="" type="radio"/>	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

NOW, TURN TO PAGE 1 (PART I - BACKGROUND INFORMATION SECTION) IN THE RESPONSE BOOKLET AND BEGIN FILLING IN RESPONSES TO QUESTIONS 1 TO 13. QUESTIONS 14 AND 15 ARE LISTED ON THE FOLLOWING PAGE: PLEASE RESPOND TO EVERY QUESTION.

NOTE: RESPONSES TO THE FOLLOWING WILL BE MARKED IN BLOCK 14 OF YOUR ANSWER BOOK.

14. MY PRESENT BILLET TITLE IS BEST DESCRIBED AS: (SELECT ONLY ONE)

- 001. AFDS TECHNICIAN
- 002. AIRCRAFT MISSILE CONTROL SYSTEM TECHNICIAN
- 003. CM TECHNICIAN
- 004. CM RADAR TECHNICIAN
- 005. FIRE CONTROL TECHNICIAN
- 006. FIRE DISTRIBUTION SYSTEM TECHNICIAN
- 007. FIRING SECTION REPAIRMAN
- 008. HAWK ELECTRONIC REPAIRMAN
- 009. IMPROVED HAWK AFD/ESS TECHNICIAN

010. IMPROVED HAWK CONTINUOUS WAVE RADAR TECHNICIAN
 011. IMPROVED HAWK FIRE CONTROL TECHNICIAN
 012. IMPROVED HAWK FIRING SECTION REPAIRMAN
 013. IMPROVED HAWK INFORMATION COORDINATION CENTRAL REPAIRMAN
 014. IMPROVED HAWK MECHNICAL SYSTEM REPAIRMAN
 015. IMPROVED HAWK MISSILE SYSTEM MAINTENANCE CHIEF
 016. IMPROVED HAWK MISSILE SYSTEM MAINTENANCE TECHNICIAN
 017. IMPROVED HAWK PULSE RADAR TECHNICIAN
 018. MECHANICAL SYSTEM REPAIRMAN
 019. MISSILE SYSTEM MAINTENANCE TECHNICIAN
 020. NCOIC MODS/MAINTENANCE
 021. PULSE RADAR REPAIRMAN
 022. PULSE RADAR TECHNICIAN
 023. SECTION CHIEF
 024. SIMULATOR TECHNICIAN
 025. SURV RADAR TECHNICIAN
 026. SYSTEM MAINTENANCE SHOP CHIEF
 027. SYSTEM QUALITY CONTROL CHIEF
 028. TACTICAL DATA SYSTEM TECHNICIAN
 029. TACTICAL DATA TERMINAL REPAIRMAN
 030. TEST CHIEF
 031. AA MISSILE BATTERYMAN 1
 032. AA MISSILE BATTERYMAN/GENERATOR OPERATOR
 033. AA MISSILE BATTERYMAN/BOADER
 034. AC/AAW ELECTRONIC OPERATOR
 035. AIR CONTROLLER 5
 036. AIR DEFENSE OPERATION MAN
 037. AIR DEFENSE SYSTEM PROJECT NCO
 038. AIR SUPPORT OPERATIONS MAN
 039. AIR SUPPORT OPERATOR
 040. ASRT CHIEF
 041. ASSEMBLY CHIEF
 042. CREW CHIEF
 043. GUNNERY SERGEANT
 044. ICC REPAIRMAN
 045. LAUNCHING CHIEF
 046. LOADER OPERATOR
 047. MAINTENANCE CHIEF
 048. MESSENGER/DRIVER
 049. MISSILE HANDLER
 050. MISSILE HANDLER/DRIVER
 051. NCOIC AOC
 052. NCOIC/AIR SUPPORT OPERATOR
 053. OPERATIONS CHIEF
 054. PLATOON SERGEANT
 055. PLOTTER
 056. PLOTTER/DRIVER
 057. PLOTTER/GENERATOR OPERATOR
 058. RADAR OPERATOR

- 059. RADAR OPERATOR/GENERATOR OPERATOR
- 060. REDEYE OPERATOR/MOTOR VEHICLE OPERATOR
- 061. REDEYE OPERATOR/TEAM LEADER
- 062. TACC CHIEF
- 063. TRAINING AIDS/PLOTTER
- 064. TRAINING CHIEF/LNMCO
- 065. NAVIGATOR
- 066. NAVIGATOR/TRAINING NCO
- 067. AIRBORNE RADIO OPERATOR
- 068. LOADMASTER

NOTE: THE FOLLOWING CORRESPONDS WITH QUESTION 15 IN THE RESPONSE BOOKLET

THE FOLLOWING TASKS ARE ASSOCIATED WITH ELECTRONICS THEORY AND NOT RELATED TO A PARTICULAR END ITEM. MARK OFF ALL THOSE TASKS WHICH YOU EMPLOY IN YOUR PRESENT ASSIGNMENT.

- 001 COMPUTE VOLTAGE DROP IN A DC CIRCUIT USING OHMS LAW
- 002 COMPUTE CURRENT IN A DC CIRCUIT USING OHMS LAW
- 003 COMPUTE THE VALUE OF A RESISTOR USING OHMS LAW
- 004 ANALYZE BASIC ELECTRONIC CIRCUITS USING METHODS SUCH AS MATHEMATICAL OR VECTOR ANALYSIS
- 005 DISTINGUISH BETWEEN VARIOUS COLOR CODES SUCH AS RESISTOR, DIODE, AND CAPACITOR /L
- 006 MEASURE UNKNOWN ELECTRICAL QUANTITIES WITH APPROPRIATE TEST EQUIPMENT
- 007 TROUBLESHOOT PARALLEL DC CIRCUITS/SERIES DC CIRCUITS
- 008 INTERPRET ELECTRICAL MEASUREMENTS TO LOCATE MALFUNCTIONS IN SERIES-PARALLEL CIRCUITS
- 009 MEASURE AND DISPLAY AC SIGNALS
- 010 ISOLATE MALFUNCTIONS IN AC RESISTOR CIRCUITS
- 011 LOCATE MALFUNCTIONS IN INDUCTIVE CIRCUITS
- 012 ISOLATE MALFUNCTIONS IN CAPACITIVE CIRCUITS
- 013 LOCATE MALFUNCTIONS IN ICR (INDUCTIVE CAPACITIVE RESISTOR) CIRCUITS
- 014 TROUBLESHOOT SERIES RESONANCE CIRCUITS TO DETERMINE MALFUNCTIONS
- 015 TROUBLESHOOT PARALLEL RESONANCE CIRCUITS TO DETERMINE MALFUNCTIONS
- 016 MEASURE ELECTRICAL QUANTITIES OF TRANSFORMER CIRCUITS
- 017 ISOLATE MALFUNCTIONS IN ELECTRICAL CIRCUITS
- 018 ISOLATE MALFUNCTIONS IN A POWER SUPPLY
- 019 ANALYZE AND MEASURE VOLTAGES IN TRIODE CIRCUITS
- 020 ANALYZE AND MEASURE OBSERVABLE EFFECTS OF BIAS IN AN AMPLIFIER CIRCUIT
- 021 ANALYZE AND LOCATE MALFUNCTIONS IN SINGLE STAGE MULTIELEMENT AMPLIFIERS
- 022 ANALYZE AND LOCATE MALFUNCTIONS IN MULTI-STAGE AMPLIFIER CIRCUITS
- 023 ANALYZE AND LOCATE MALFUNCTIONS IN AN ELECTRONIC VOLTAGE REGULATOR
- 024 MEASURE VOLTAGES AND FREQUENCIES FOUND IN SOLID STATE CIRCUITS
- 025 TEST TRANSISTOR CIRCUITS
- 026 LOCATE MALFUNCTIONS IN SINGLE STAGE TRANSISTOR CIRCUITS
- 027 ISOLATE MALFUNCTIONS IN COMMON CONFIGURATION AMPLIFIERS
- 028 TROUBLESHOOT RC (RESISTIVE CAPACITY) COUPLED TRANSISTOR AMPLIFIERS

029 ISOLATE MALFUNCTIONS IN MULTI-STAGE TRANSISTOR AMPLIFIERS
 030 TROUBLESHOOT FIELD EFFECT TRANSISTORS
 031 ISOLATE MALFUNCTIONS IN SOLID STATE POWER SUPPLIES
 032 LOCATE FAULTY COMPONENTS IN REGULATED POWER SUPPLIES
 033 TROUBLESHOOT TRANSISTOR SINUSOIDAL OSCILLATORS
 034 LOCATE MALFUNCTIONING COMPONENTS IN NONSINUSOIDAL OSCILLATORS
 035 TROUBLESHOOT COMPOSITE CIRCUITS
 036 ANALYZE VOLTAGE DIVIDER CIRCUITS FOR MALFUNCTIONS
 037 COMPARE TIME CONSTANT/PULSE WIDTH (TC/PW) RATIOS IN RC CIRCUITS
 038 ANALYZE CAPACITOR CHARACTERISTICS IN RC CIRCUITS
 039 VERIFY OUTPUT WAVESHARES IN RC CIRCUITS
 040 ANALYZE INDUCTOR CHARACTERISTICS IN LR (INDUCTOR RESISTOR) CIRCUITS
 041 COMPARE TW/PW RATIOS IN LR CIRCUITS
 042 VERIFY OUTPUT WAVESHAPES IN LR CIRCUITS
 043 MEASURE OUTPUT OF COUPLING CIRCUITS TO INCLUDE
 DIFFERENTIATORS AND INTEGRATORS
 044 ANALYZE SYNCHRO OPERATION
 045 ISOLATE MALFUNCTIONS IN CATHODE FOLLOWERS AND GROUNDED GRID AMPLIFIERS
 046 ANALYZE SINE WAVE OSCILLATOR OPERATION AND ISOLATE MALFUNCTIONS
 047 SOLDER SINGLE AND DOUBLE ENTRY ELECTRICAL CONNECTIONS
 048 ANALYZE AND TROUBLESHOOT THE CATHODE RAY TUBE AND
 POSITIONING CIRCUITS FOR X AND Y SWEEP OR LINEARITY
 049 ANALYZE AND TROUBLESHOOT SWEEP CIRCUITS
 050 ANALYZE AND TROUBLESHOOT THE SINGLE SWING BLOCKING OSCILLATOR
 051 ANALYZE AND TROUBLESHOOT MULTIVIBRATOR CIRCUITS
 052 ANALYZE AND TROUBLESHOOT PHASE SPLITTER CIRCUITRY
 053 TROUBLESHOOT GATING CIRCUITRY
 054 ANALYZE AND TROUBLESHOOT SWEEP GENERATOR CIRCUITRY
 055 TROUBLESHOOT CLAMPER CIRCUITRY
 056 TROUBLESHOOT THE SWEEP SECTION OF CRT (CATHODE RAY TUBE) OR
 ANY PRESENTATION SYSTEM
 057 ANALYZE AND TROUBLESHOOT THE PHANTASTRON CIRCUIT
 058 TROUBLESHOOT LIMITER CIRCUITS
 059 ANALYZE AND TROUBLESHOOT VIDEO AMPLIFIERS
 060 TROUBLESHOOT THE RANGE SECTION
 061 ANALYZE AND TROUBLESHOOT THE TIMING AND DISPLAY CHAIN
 062 ANALYZE MICROWAVE FREQUENCY CHARACTERISTICS
 063 ANALYZE TRANSMISSION LINES
 064 ANALYZE ANTENNAS
 065 ANALYZE WAVE GUIDES AND WAVE GUIDE DEVICES
 066 ANALYZE OPERATING CHARACTERISTICS OF KLYSTRONS, MAGNETRONS,
 AND TRAVELING WAVE TUBES
 067 MEASURE THE CHARACTERISTICS OF REFLEX KLYSTRON
 068 ANALYZE AN AMPLITUDE MODULATED TRANSMITTER
 069 MEASURE CHARACTERISTICS OF AN AM WAVE
 070 MEASURE WAVEFORM CHARACTERISTICS
 071 ALIGN IF (INTERMEDIATE FREQUENCY) AMPLIFIER CIRCUITRY
 072 TEST MICROWAVE TRANSMITTERS AND RECEIVERS
 073 HOLD POWER CHECKS ON PULSE RADARS

- 074 SOLDER BIFURCATED TURRET TERMINAL AND PIN CONNECTIONS
- 075 SOLDER COMPONENTS TO A PRINTED CIRCUIT BOARD
- 076 CHECK OUT (UNIT UNDER TEST) USING THE HIGH FREQUENCY CONSOLE
- 077 ALIGN THE COMPONENTS OF THE HIGH FREQUENCY CONSOLE
- 078 SERVICE THE HIGH FREQUENCY CONSOLE

THIS COMPLETES THE BACKGROUND PORTION OF THIS SURVEY. QUESTIONS
16 THROUGH 38 HAVE BEEN OMITTED.

PART II - TASK SECTION

INSTRUCTIONS FOR COMPLETING PART II OF THE RESPONSE BOOKLET:

READ THROUGH THE ENTIRE TASK SECTION OF THIS QUESTIONNAIRE AND FILL IN THE CIRCLE UNDER THE TASK DONE COLUMN, IN THE RESPONSE BOOKLET, FOR EACH TASK STATEMENT WHICH YOU ACTUALLY PERFORM NOW IN YOUR BILLET. DO NOT FILL IN THE CIRCLES FOR TASKS THAT YOU DO NOT PERFORM. DO NOT BLACKEN THE NUMBERS TO THE RIGHT OF THE CIRCLES AT THIS TIME. SEPARATE INSTRUCTIONS WILL FOLLOW FOR THAT PART OF THE QUESTIONNAIRE AFTER YOU HAVE COMPLETED MARKING THE TASKS THAT YOU DO.

E X A M P L E

QUESTIONNAIRE BOOKLET

RESPONSE BOOKLET

TASK DONE

0001	TASK	<input checked="" type="radio"/>	0 0 0 1	1 2 3 4 5 6 7
0012	TASK	<input type="radio"/> 0	0 0 1 2	1 2 3 4 5 6 7
0035	TASK	<input checked="" type="radio"/>	0 0 3 5	1 2 3 4 5 6 7

THE LIST OF BILLET MOS RELATED TASKS BEGINS ON THE NEXT PAGE.

1. DEENERGIZE IMPROVED CONTINUOUS WAVE ACQUISITION RADAR (ICWAR)
2. DISCONNECT ICWAR POWER AND DATA CABLES
3. STOW ICWAR ANTENNA IN TRAVEL POSITION
4. PREPARE ICWAR TRAILER FOR TRAVEL
5. EMLACE ICWAR TRAILER
6. GROUND ICWAR
7. LEVEL ICWAR
8. CONNECT ICWAR POWER AND DATA CABLES
9. ENERGIZE ICWAR
10. REMOVE/INSTALL ICWAR TELESCOPE⁰₀
11. ORIENT AND ALIGN ICWAR
12. VERIFY ALIGNMENT OF ICWAR
13. CONDUCT ICWAR DAILY CHECK
14. CHECK ICWAR INTEGRATED SYSTEM FOR OPERATION
15. CHECK ICWAR COMMUNICATION FOR OPERATION
16. PREPARE IMPROVED LAUNCHING SECTION GUIDED MISSILE CONTROL BOX (ILSCB) ("J" BOX) FOR TRAVEL
17. EMLACE ILSCB ("J" BOX)
18. OPERATE ILSCB ("J" BOX)
19. MARCH ORDER ILSCB ("J" BOX)
20. TEST ILSCB ("J" BOX) FOR PROPER OPERATION OF LAMPS
21. PREPARE ICWAR FOR HELICOPTER MOVEMENT
22. PREPARE ICWAR FOR AMPHIBIOUS OPERATION
23. PREPARE LOADER-TRANSPORTER FOR TRAVEL

24. DEENERGIZE LOADER-TRANSPORTER
25. ENERGIZE LOADER-TRANSPORTER
26. PERFORM BEFORE OPERATION CHECKS ON LOADER-TRANSPORTER
27. INDEX LOADER-TRANSPORTER TO PALLET
28. INDEX LOADER-TRANSPORTER TO LAUNCHER
29. TRANSFER MISSILES TO/FROM LOADER AND LAUNCHER
30. PERFORM LOADER-TRANSPORTER AFTER OPERATION CHECKS
31. INSEPECT LOADER-TRANSPORTER SUSPENSION SYSTEM FOR SERVICEABILITY
32. ADJUST LOADER TRANSPORTER TRACK TENSION
33. PERFORM OPERATOR CHECKS AND SERVICES ON LOADER-TRANSPORTER SUSPENSION SYSTEM
34. PERFORM OPERATOR CHECKS AND SERVICES ON LOADER-TRANSPORTER HUBS AND SHOCK ABSORBERS
35. PERFORM OPERATOR CHECKS AND SERVICES ON LOADER-TRANSPORTER HULL
36. PERFORM OPERATOR CHECKS AND SERVICES ON LOADER-TRANSPORTER LIGHTS
37. PERFORM OPERATOR CHECKS AND SERVICES ON LOADER-TRANSPORTER FIRE EXTINGUISHER
38. PERFORM OPERATOR CHECKS AND SERVICES ON LOADER-TRANSPORTER BATTERIES
39. PERFORM OPERATOR CHECKS AND SERVICES ON LOADER-TRANSPORTER RADIATOR
40. SUPERVISE PERSONNEL EMPLACING COMMAND AND ACQUISITION SECTION EQUIPMENT
41. INSTRUCT/TRAIN PERSONNEL IN THE TECHNIQUES OF PREPARING COMMAND AND ACQUISITION SECTION EQUIPMENT FOR TRAVEL
42. SUPERVISE PERSONNEL PERFORMING ORIENTATION AND ALIGNMENT OF HAWK FIRE CONTROL EQUIPMENT

43. INSTRUCT/TRAIN PERSONNEL IN THE TECHNIQUES OF ORIENTATION AND ALIGNMENT OF HAWK FIRE CONTROL EQUIPMENT
44. SUPERVISE PERSONNEL PERFORMING HAWK FIRE CONTROL EQUIPMENT PREVENTIVE MAINTENANCE
45. INSTRUCT PERSONNEL IN HAWK FIRE CONTROL EQUIPMENT PREVENTIVE MAINTENANCE TECHNIQUES
46. SUPERVISE PERSONNEL PERFORMING PREVENTIVE MAINTENANCE ON UNIT TRAILERS
47. SUPERVISE PERSONNEL PERFORMING PREVENTIVE MAINTENANCE SERVICE ON ELECTRICAL CABLE ASSEMBLY SETS
48. INSTRUCT PERSONNEL IN CABLE ASSEMBLY SET PREVENTIVE MAINTENANCE TECHNIQUES
49. SUPERVISE PERSONNEL PERFORMING DAILY CHECKS AND ADJUSTMENTS ON FIRE CONTROL EQUIPMENT
50. SUPERVISE PERSONNEL PERFORMING ORIENTATION AND ALINEMENT OF IMPROVED HAWK SYSTEM
51. SUPERVISE PERSONNEL PERFORMING INTEGRATED CHECKS OF FIRE CONTROL EQUIPMENT
52. PREPARE COVER AND CLUTTER DIAGRAMS
53. TRANSFER GEOGRAPHICAL REFERENCE FROM MAP TO TACTICAL CONTROL CONSOLE (TCC) PLOTTING BOARD
54. ORIENT AIMING CIRCLE M2
55. MONITOR OPERATION OF ANTIJAMMING DEVICES, CONSOLES, AND ASSOCIATED EQUIPMENT
56. SUPERVISE PERSONNEL ENERGIZING AND DEENERGIZING FIRE CONTROL EQUIPMENT
57. INSTRUCT/TRAIN PERSONNEL IN THE TECHNIQUES OF ENERGIZING AND DEENERGIZING FIRE CONTROL EQUIPMENT
58. SUPERVISE PERSONNEL PERFORMING CREW DRILL AND FIRING DUTIES
59. ESTABLISH HAWK FIRE CONTROL CREWMAN OJT
60. EVALUATE HAWK FIRE CONTROL CREWMAN TRAINING FOR EFFECTIVENESS

61. DEENERGIZE IMPROVED HIGH POWERED ILLUMINATOR RADAR (IHIPIR)
62. DISCONNECT IHIPIR POWER AND DATA CABLES
63. STOW IHIPIR ANTENNA IN TRAVEL POSITION
64. PREPARE IHIPIR TRAILER FOR TRAVEL
65. EMPLACE IHIPIR TRAILER
66. GROUND IHIPIR
67. LEVEL IHIPIR
68. CONNECT IHIPIR POWER AND DATA CABLES
69. ENERGIZE IHIPIR
70. ORIENT AND ALIGN IHIPIR
71. VERIFY ALIGNMENT OF IHIPIR
72. CONDUCT IHIPIR DAILY CHECKS
73. CONDUCT IHIPIR INTEGRATED SYSTEMS CHECKS
74. INSTALL IHIPIR TELESCOPE
75. BACKSIGHT/ALIGN IHIPIR TELESCOPE TO LAUNCHER SECTION
76. PREPARE IHIPIR FOR HELICOPTER MOVEMENT
77. PREPARE IHIPIR FOR AMPHIBIOUS OPERATION
78. DEENERGIZE IMPROVED PULSE ACQUISITION RADAR (IPAR)
79. DISCONNECT IPAR POWER AND DATA CABLES
80. STOW IPAR OMNIDIRECTIONAL ANTENNA ASSEMBLY
81. STOW IPAR FEEDHORN IN ANTENNA REFLECTOR CONTAINER
82. PREPARE IPAR TRAILER FOR TRAVEL
83. EMPLACE IPAR TRAILER
84. LEVEL IPAR
85. INSTALL IPAR OMNIDIRECTIONAL ANTENNA ASSEMBLY

86. INSTALL IPAR FEEDHORN
87. GROUND IPAR
88. CONNECT IPAR POWER AND DATA CABLES
89. ENERGIZE IPAR
90. CONDUCT IPAR COMMUNICATIONS CHECK
91. ORIENT AND ALIGN IPAR TO A KNOWN REFERENCE POINT
92. VERIFY ALIGNMENT OF IPAR
93. CONDUCT IPAR DAILY CHECKS
94. CONDUCT IPAR INTEGRATED SYSTEM CHECKS
95. REMOVE/INSTALL IPAR TELESCOPE
96. VERIFY IPAR AZIMUTH
97. BACKSIGHT/ALIGN IPAR TELESCOPE TO ALL RADAR ANTENNAS
98. CHECK IPAR SET CONTROL PANEL LAMPS FOR OPERATION
99. CHECK IPAR REMOTE STANDBY OPERATION FOR FUNCTIONING
100. CHECK IPAR REMOTE RADIATE OPERATION FOR FUNCTIONING
101. CHECK IPAR BACK BIAS AND DICKE FIX FOR FUNCTIONING
102. DEENERGIZE IMPROVED RANGE-ONLY RADAR (IROR)
103. DISCONNECT IROR POWER AND DATA CABLES
104. PREPARE IROR ANTENNA FOR TRAVEL
105. PREPARE IROR TRAILER FOR TRAVEL
106. POSITION IROR TRAILER
107. PREPARE IROR ANTENNA FOR OPERATION
108. LEVEL IROR
109. CONNECT IROR POWER AND DATA CABLES
110. ENERGIZE IROR

111. INSTALL IROR ALIGNMENT TELESCOPE
112. ORIENT/ALIGN IROR TO IPAR
113. VERIFY IROR ALIGNMENT
114. CONDUCT IROR DAILY CHECKS
115. CONDUCT IROR INTEGRATED SYSTEM CHECKS
116. ALIGN IROR TO IHIPIR-A AND NULL OUT
117. ALIGN IROR TO IHIPIR-B AND NULL OUT
118. DEENERGIZE IMPROVED BATTERY CONTROL CENTRAL (IBCC)
119. DISCONNECT IBCC POWER AND DATA CABLES
120. INSTALL TCC SUPPORTS
121. POSITION IBCC
122. GROUND IBCC
123. INSTALL IBCC SIREN
124. CONNECT IBCC POWER AND DATA CABLES
125. ENERGIZE IBCC
126. CONDUCT IBCC DAILY CHECKS
127. CONDUCT IBCC INTEGRATED SYSTEM CHECKS
128. VERIFY IPAR ALIGNMENT WITH THE IBCC
129. VERIFY IMPROVED IDENTIFICATION FRIEND OR FOE ANTENNA
ALIGNMENT WITH THE IBCC
130. VERIFY ICWAR ALINMENT WITH THE IBCC
131. VERIFY IHIPIR ALIGNMENT WITH THE IBCC
132. VERIFY IROR ALIGNMENT WITH THE IBCC
133. DEENERGIZE INFORMATION AND COORDINATION CENTRAL (ICC)
134. DISCONNECT ICC POWER AND DATA CABLES

135. DISPLACE REMOTE IFF ANTENNA
136. MARCH ORDER/EMPLACE IFF ANTENNA
137. PREPARE ICC TRAILER FOR TRAVEL
138. POSITION ICC TRAILER
139. GROUND ICC
140. LEVEL ICC
141. CONNECT ICC POWER AND DATA CABLES
142. ENERGIZE ICC
143. CONDUCT ICC DAILY CHECKS
144. CONDUCT ICC INTEGRATED SYSTEM CHECKS
145. VERIFY IPAR ORIENTATION AND ALIGNMENT
146. VERIFY ICWAR ORIENTATION AND ALIGNMENT
147. CONDUCT IDENTIFICATION FRIEND OR FOE NULLING PROCEDURES
148. DEENERGIZE IMPROVED PLATOON COMMAND POST (IPCP)
149. DISCONNECT IPCP POWER AND DATA CABLES
150. DISPLACE IFF ANTENNA
151. MARCH ORDER/EMPLACE IPCP IFF ANTENNA
152. PREPARE IPCP TRAILER FOR TRAVEL
153. POSITION IPCP TRAILER
154. GROUND IPCP
155. LEVEL IPCP
156. CONNECT IPCP DATA AND POWER CABLES
157. ENERGIZE IPCP
158. CONDUCT IPCP DAILY CHECKS
159. CONDUCT IPCP INTEGRATED SYSTEM CHECKS

160. VERIFY ICWAR ORIENTATION/ALIGNMENT
161. VERIFY IHIPR ORIENTATION/ALIGNMENT
162. DEENERGIZE INTERROGATOR SET (IFF) EQUIPMENT
163. ENERGIZE IFF
164. CHECK LEVEL OF IFF ANTENNA
165. INSTALL IFF ALIGNMENT TELESCOPE AND MOUNTING BRACKET
166. ALIGN IFF ANTENNA
167. VERIFY IFF ANTENNA ALIGNMENT
168. PREPARE RADAR SIGNAL SIMULATOR STATION (AN/TPQ-29) FOR TRAVEL
169. EMPLACE RADAR SIGNAL SIMULATOR
170. ENERGIZE RADAR SIGNAL SIMULATOR
171. PROGRAM RADAR SIGNAL SIMULATOR WITH AIRCRAFT TARGETS
172. PROGRAM RADAR SIGNAL SIMULATOR WITH JAMMING
173. PROGRAM RADAR SIGNAL SIMULATOR WITH OPERATIONS CENTER
174. PROGRAM RADAR SIGNAL SIMULATOR WITH MISSILE LAUNCHES
175. PROGRAM RADAR SIGNAL SIMULATORS WITH TARGET KILL/NO KILL
176. SCORE FIRING CREWS
177. SLEW CORRELATION CURSOR TO PSI CURSOR & TARGET VIDEO (TCA)
178. PRESS CW CONFIRM PUSHBUTTON (TCA)
179. INITIATE MANUAL CHALLENGE (TCA)
180. OBSERVE SCOPE FOR IFF RETURN
181. DETECT TARGET VIDEO
182. SLEW ASI CURSOR OVER VIDEO (ASO)
183. PRESS TCC ALERT PUSHBUTTON

184. DETECT DISTINCTIVE SIMULTANEOUS RADIAL VELOCITY AND AZIMUTH CHANGE OF TARGET VIDEO (ASO)
185. PRESS TCC ALERT PUSHBUTTON AND ANNOUNCE MANEUVERING TARGET
186. OBSERVE APPEARANCE OF TRACKING SYMBOL, FLASHING LOW PUSHBUTTON AND LIGHTED ASSIGN LABEL
187. SLEW TRACKING CURSOR TO THE AZ OF TRACKING SYMBOL, PRESS THE FLASHING LOW PUSHBUTTON
188. REPORT SIGNAL STRENGTH, SPEED, AND ALTITUDE TO TCO
189. MONITOR LOCK INDICATIONS FOR TARGET MANEUVERS OR ECM
190. PRESS FIRE ~~FIRE~~BUTTON WHEN LIT
191. MONITOR MISSILE FLIGHT
192. REPORT TONE BURST TO TCO
193. MONITOR AUDIO AND LOCK INDICATIONS FOR TARGET KILL
194. PRESS KILL PUSHBUTTON AND SLEW TRACKING CURSOR TO SETTING OF THE DAY/PRIMARY TARGET LINE (PTL)
195. REPORT MANEUVERING TARGET (FCO)
196. WHEN TARGET SPEED BEGINS TO DROP TOWARD MINIMUM TRACKING SPEED, SELECT MANUAL SPEED AND MAINTAIN SPEEDGATE MARKERS OVER TARGET VIDEO (FCO)
197. PREPARE THE IMPROVED HAWK GUIDED MISSILE LAUNCHER (ILCHR) FOR MOVEMENT BY PRIME MOVER
198. PREPARE ILCHR FOR MOVEMENT BY HELICOPTER
199. PREPARE ILCHR FOR AMPHIBIOUS OPERATIONS
200. DISCONNECT ILCHR CONTROL POWER AND DATA CABLES
201. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR SUPPORT ASSEMBLY
202. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR BASE
203. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR CONTROLS
204. REMOVE MISSILES FROM ILCHR

205. EMPLACE ILCHR
206. GROUND ILCHR
207. CONNECT ILCHR POWER AND DATA CABLES
208. GUIDE MISSILE ONTO LAUNCHER ARM
209. LATCH MISSILE ONTO THE LAUNCHER
210. ENERGIZE ILCHR
211. DEENERGIZE ILCHR
212. INSTALL MINATURE GUIDED MISSILE SIMULATORS
213. ORIENT AND ALIGN ILCHR
214. REMOVE/INSTALL ILCHR ALIGNMENT TELESCOPE
215. COMPUTE ELEVATION ANGLE AND FIRE CUTOUT SETTINGS
216. PERFORM ILCHR AND IMPROVED LAUNCHING SECTION CONTROL BOX (ILSCB) INTEGRATED SYSTEMS CHECK
217. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR COMMUNICATION STATION
218. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR TELESCOPE
219. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR INTERVEHICULAR CABLE ASSEMBLY
220. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR TRIPOD ASSEMBLY
221. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR TELESCOPE SUPPORT
222. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR BASE PLATE
223. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR CONTROL UNIT CABLE ASSEMBLY
224. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR BOOM
225. PERFORM OPERATOR CHECKS AND SERVICES ON ILCHR ACTUATOR INSTALLATION

- 226. CHECK LOADER-TRANSPORTER OIL LEVELS
- 227. CHECK LOADER-TRANSPORTER AIR CLEANERS
- 228. INSPECT LOADER-TRANSPORTER INSTRUMENT PANEL AND DISTRIBUTION BOX
- 229. PERFORM OPERATOR CHECKS/SERVICES ON LOADER-TRANSPORTER INSTRUMENT PANEL AND DISTRIBUTION BOX
- 230. INSPECT LOADER-TRANSPORTER CONTROLS
- 231. LUBRICATE LOADER-TRANSPORTER
- 232. CLEAN AND SPOT PAINT LOADER-TRANSPORTER
- 233. DIRECT EMPLACEMENT OF HAWK FIRING EQUIPMENT
- 234. ESTABLISH STATION HEADQUARTERS
- 235. INSTRUCT PERSONNEL IN ILCHR TRAVEL AND EMPLACEMENT TECHNIQUES
- 236. SUPERVISE PERSONNEL PREPARING ILCHR FOR TRAVEL AND AND EMPLACEMENT
- 237. MONITOR ILCHR ENERGIZING-DEENERGIZING
- 238. INSTRUCT PERSONNEL IN ILCHR AND ILSCB ("J" BOX) INTEGRATED CHECKS
- 239. SUPERVISE PERSONNEL CONDUCTING ILCHR AND ILSCB ("J" BOX) INTEGRATED CHECKS
- 240. MONITOR ILCHR AND ILSCB ("J" BOX) INTEGRATED CHECKS
- 241. INSTRUCT PERSONNEL IN ILCHR PREVENTIVE MAINTENANCE TECHNIQUES
- 242. SUPERVISE PERSONNEL CONDUCTING ILCHR PREVENTIVE MAINTENANCE
- 243. INSTRUCT PERSONNEL IN PREPARATION OF ILCHR FOR REMOTE OPERATIONS
- 244. SUPERVISE PERSONNEL PREPARING ILCHR FOR REMOTE OPERATIONS
- 245. CHECK EMPLACEMENT AND ALIGNMENT OF ILCHR FOR REMOTE OPERATIONS

- 246. INSTRUCT PERSONNEL IN ILSCB ("J" BOX) TRAVEL AND EMPLACEMENT TECHNIQUES
- 247. SUPERVISE PERSONNEL PREPARING ILSCB ("J" BOX) FOR TRAVEL AND EMPLACEMENT
- 248. INSTRUCT PERSONNEL IN ILSCB ("J" BOX) PREVENTIVE MAINTENANCE TECHNIQUES
- 249. INSTRUCT PERSONNEL IN LOADER-TRANSPORTER TRAVEL AND EMPLACEMENT TECHNIQUES
- 250. SUPERVISE PERSONNEL PREPARING LOADER-TRANSPORTER FOR TRAVEL AND EMPLACEMENT
- 251. MONITOR LOADER-TRANSPORTER OPERATIONS
- 252. INSTRUCT PERSONNEL IN LOADER-TRANSPORTER OPERATION TECHNIQUES
- 253. INSTRUCT PERSONNEL IN LOADER-TRANSPORTER PREVENTIVE MAINTENANCE TECHNIQUES
- 254. SUPERVISE PERSONNEL PERFORMING LOADER-TRANSPORTER PREVENTIVE MAINTENANCE
- 255. INSTRUCT/TRAIN PERSONNEL IN THE TECHNIQUES OF EMPLACING LOADING AND STORAGE PALLETS
- 256. SUPERVISE PERSONNEL PREPARING LOADING AND STORAGE PALLET AND TRAILER FOR TRAVEL AND EMPLACEMENT
- 257. INSTRUCT PERSONNEL IN STORAGE PALLET AND TRAILER PREVENTIVE MAINTENANCE TECHNIQUES
- 258. SUPERVISE PERSONNEL PERFORMING PREVENTIVE MAINTENANCE ON STORAGE PALLETS AND TRAILERS
- 259. SUPERVISE PERSONNEL COMPUTING ELEVATION ANGLE AND FIRE CUTOFF SETTINGS
- 260. INSTRUCT/TRAIN PERSONNEL IN THE TECHNIQUES OF CANNING AND DECANNING MISSILES
- 261. SUPERVISE PERSONNEL CANNING AND DECANNING MISSILES
- 262. INSTRUCT/TRAIN PERSONNEL IN THE TECHNIQUES OF MISSILE ARMING AND DISARMING

263. SUPERVISE PERSONNEL ARMING AND DISARMING MISSILES
264. INSTRUCT/TRAIN PERSONNEL IN THE TECHNIQUES OF MISSILE SAFETY AND ARMING TEST AID (SATA)
265. SUPERVISE PERSONNEL PERFORMING MISSILE SATA CHECKS
266. VERIFY RESULTS OF SATA CHECKS
267. INSTRUCT/TRAIN PERSONNEL IN THE TECHNIQUES OF MISSILE LOADING AND UNLOADING
268. SUPERVISE PERSONNEL LOADING AND UNLOADING MISSILES
269. INSTRUCT PERSONNEL IN MISSILE AND MISSILE CONTAINER PREVENTIVE MAINTENANCE TECHNIQUES
270. SUPERVISE PERSONNEL PERFORMING MISSILE AND MISSILE CONTAINER PREVENTIVE MAINTENANCE
271. COORDINATE ORGANIZATIONAL MAINTENANCE ON FIRING PLATOON EQUIPMENT
272. SUPERVISE OPERATIONS OF FIRE CONTROL CREWMEN
273. CONDUCT BATTERY CREW ALERT DRILL
274. PLAN SQUAD/SECTION ON-THE-JOB TRAINING (OJT)
275. ORGANIZE SQUAD/SECTION OJT
276. CONDUCT SQUAD/SECTION OJT
277. PREPARE LOADING AND STORAGE PALLET FOR MOVEMENT BY PRIME MOVER
278. PREPARE LOADING AND STORAGE PALLET FOR MOVEMENT BY HELICOPTER
279. SECURE MISSILES TO PALLET
280. MOUNT PALLET ON TRAILER
281. CONNECT PALLET TRAILER TO PRIME MOVER
282. MOUNT PALLET ON TRUCK BED
283. EMPLACE PALLET TRAILER

- 284. INSPECT PALLET BALL LOCKPINS
- 285. REPLACE PALLET BALL LOCKPINS
- 286. INSPECT PALLET TEFLON PADS
- 287. REPLACE PALLET TEFLON PADS
- 288. INSPECT PALLET INDEX PINS
- 289. REPLACE PALLET INDEX PINS
- 290. INSPECT PALLET SPREADER BARS
- 291. CLEAN PALLET SPREADER BARS
- 292. REPLACE PALLET SPREADER BARS
- 293. CLEAN/PAINT PALLET EXTERIOR SURFACES
- 294. INSPECT MISSILE ANCHORING STUDS
- 295. REPLACE MISSILE ANCHORING STUDS
- 296. CHECK OPERATION OF MISSILE LATCHING MECHANISMS
- 297. INSPECT MISSILE CONTAINER FOR DAMAGE PRIOR TO REMOVING
MISSILE
- 298. DEPRESSURIZE MISSILE CONTAINER
- 299. TRANSFER MISSILE FROM MAIN LOADING FRAME TO MISSILE STAND
- 300. UNLOAD WING ASSEMBLIES
- 301. UNLOAD MISSILE
- 302. PRESSURIZE MISSILE CONTAINER
- 303. PREPARE MISSILE CONTAINER FOR MOVEMENT BY PRIME MOVER
- 304. PREPARE MISSILE CONTAINER FOR MOVEMENT BY HELICOPTER
- 305. PERFORM DAILY INSPECTION OF MISSILES ON LAUNCHERS AND
PALLETS
- 306. PERFORM MONTHLY INSPECTION AND PRESSURE CHECK OF MISSILE
CONTAINERS

307. CLEAN EXTERIOR SURFACE OF MISSILES/MISSILE CONTAINERS
308. SPOT PAINT MISSILE CONTAINER
309. PREPARE GENERATOR FOR TRAVEL
310. DEENERGIZE GENERATOR
311. DISCONNECT GENERATOR POWER CABLES/GROUND RODS
312. EMLACE GENERATOR
313. ENERGIZE GENERATOR
314. SERVICE GENERATOR
315. PERFORM HIGH FREQUENCY CONSOLE SELF TEST
316. REPLACE/ADJUST IMPROVED PULSE ACQUISITION RADAR (IPAR)
POWER SUPPLY
317. REPLACE/ADJUST IPAR MAIN POWER CIRCUITS
318. REPLACE/ADJUST IPAR LOW VOLTAGE POWER SUPPLY CIRCUITS
319. REPLACE/ADJUST IPAR TRANSMITTER CIRCUITS
320. REPLACE/ADJUST IPAR TRIGGER PULSE AMPLIFIER
321. REPLACE/ADJUST IPAR TUNING CIRCUITS
322. REPLACE/ADJUST VIDEO/STALO
323. REPLACE/ADJUST PRESELECTOR SERVO
324. ALIGN THE IPAR TO A GEOGRAPHICAL REFERENCE POINT
325. REPLACE/ADJUST THE IPAR AFC AMPLIFIER
326. REPLACE/ADJUST THE IPAR CW JAM NORMALIZER
327. REPLACE THE IPAR RECEIVER SWITCH
328. REPLACE/ADJUST THE IPAR SIGNAL GENERATOR
329. REPLACE THE IPAR INTERFERENCE BLANKER
330. REPLACE/ADJUST THE IPAR MOVING TARGET INDICATOR (MTI)
AMPLIFIER

- 331. REPLACE THE IPAR CARRIER GENERATOR
- 332. REPLACE/ADJUST THE IPAR DELAY AMPLIFIERS (LONG OR SHORT)
- 333. REPLACE/ADJUST THE IPAR VIDEO AMPLIFIER AND MULTIVIBRATOR
- 334. REPLACE/ADJUST THE IPAR VIDEO INTERGRATOR
- 335. REPLACE/ADJUST THE IPAR TEST GENERATOR
- 336. REPLACE/ADJUST THE IPAR INDICATOR AND ANTENNA POSITIONING CIRCUITS
- 337. REPLACE THE IPAR RADAR SET CONTROL
- 338. REPLACE/ADJUST THE IPAR RANGE MARK GENERATOR
- 339. REPLACE/ADJUST THE IMPROVED RANGE-ONLY RADAR (IROR) POWER CIRCUITS
- 340. REPLACE/ADJUST THE IROR TRANSMITTER MAGNETRON FREQUENCY CIRCUITS
- 341. REPLACE/ADJUST THE IROR LOCAL OSCILLATOR CONTROL CIRCUITS
- 342. REPLACE/ADJUST THE IROR AFC AMPLIFIER
- 343. REPLACE/ADJUST THE IROR RECEIVER
- 344. REPLACE/ADJUST THE IROR BACK BIAS AMPLIFIER
- 345. REPLACE/ADJUST THE IROR RANGE INDICATOR CIRCUITS
- 346. REPLACE/ADJUST THE IROR SWEEP GENERATOR
- 347. REPLACE/ADJUST THE IROR ANTENNA POSITIONING CIRCUITS
- 348. REPLACE/ADJUST THE IROR PARALLAX CIRCUITS
- 349. REPLACE/ADJUST THE IROR AZIMUTH OR ELEVATION PARALLAX COMPUTER
- 350. REPLACE/ADJUST THE IROR AZIMUTH OR ELEVATION CONTROL AMPLIFIER
- 351. REPLACE THE IROR CONTROL AMPLIFIER AND AMPLIFIER COMPUTER TEST SET
- 352. REPLACE THE IROR RADAR SET CONTROL

- 353. REPLACE/ADJUST THE IMPROVED BATTERY CONTROL CENTRAL (IBCC) POWER DISTRIBUTION SYSTEM
- 354. REPLACE/ADJUST THE TACTICAL CONTROL CONSOLE (TCC) CIRCUITS
- 355. REPLACE/ADJUST THE TCC/FIRE CONTROL (FC) VIDEO MIXER
- 356. REPLACE/ADJUST THE TCC LONG SWEEP GENERATOR
- 357. PERFORM IBCC SYNCHRO ALINEMENT PROCEDURE
- 358. REPLACE THE TACTICAL CONTROL OFFICER/TACTICAL CONTROL ASSISTANT (TCO/TCA) COMMUNICATIONS UNIT
- 359. REPLACE THE IBCC TEST CIRCUITS
- 360. REPLACE/ADJUST THE SCAN SERVO AMPLIFIER
- 361. REPLACE/ADJUST THE SCAN SERVO ASSEMBLY
- 362. REPLACE THE CMTDC CIRCUITS
- 363. REPLACE THE RANGE ELECTRONIC CONTROL AMPLIFIER
- 364. REPLACE/ADJUST THE FC SHORT SWEEP GENERATOR
- 365. REPLACE/ADJUST THE FIRE CONTROL GROUP
- 366. REPLACE/ADJUST THE SYMBOL GENERATOR
- 367. REPLACE THE IBCC TIMING CIRCUITS
- 368. REPLACE/ADJUST THE SYMBOL MULTIVIBRATOR
- 369. REPLACE/ADJUST THE DEFLECTION AMPLIFIER
- 370. REPLACE/ADJUST THE CLAMP GATE GENERATOR
- 371. REPLACE/ADJUST THE ELECTRONIC CLAMP ASSEMBLY
- 372. REPLACE/ADJUST DOPPLER CIRCUITS HIGH POWER RADAR IN IBCC
- 373. REPLACE/ADJUST THE IPAR RECEIVER CIRCUITS
- 374. REPLACE/ADJUST RANGE AND CONTROL AMPLIFIER
- 375. REPLACE/ADJUST THE IMPROVED CONTINUOUS WAVE ACQUISITION (ICWAR) RADAR SET CONTROL

- 376. REPLACE THE JAM COMPARATOR
- 377. REPLACE/ADJUST THE VERTICAL AMPLIFIER AND THRESHOLD CONTROL
- 378. REPLACE THE AUXILIARY MICROWAVE CONSOLE
- 379. REPLACE THE MAGNETRON SIMULATOR DUMMY LOAD
- 380. REPLACE/ADJUST THE DISPLAY SYSTEM CIRCUITS
- 381. REPLACE/ADJUST THE TACTICAL DISPLAY ENGAGEMENT CONTROL CONSOLE (TDECC) POWER DISTRIBUTION CIRCUITS
- 382. REPLACE/ADJUST THE CONTROL AND ENGAGEMENT EVALUATION CIRCUITS
- 383. REPLACE/ADJUST THE IMPROVED PLATOON COMMAND POST (IPCP) PRESENTATION SYSTEM
- 384. REPLACE/ADJUST THE TDECC TIMING AND SYMBOL GENERATION SYSTEM
- 385. REPLACE/ADJUST THE DOPPLER AND COMMUNICATION SYSTEM CIRCUITS
- 386. REPLACE/ADJUST THE TEST MONITOR CONTROL CIRCUITS
- 387. REPLACE THE CATASTROPHIC FAIL TEST CIRCUITS
- 388. REPLACE THE TIMING AND SIGNAL GENERATION TEST CIRCUITS
- 389. REPLACE/ADJUST THE PLANNED POSITION INDICATOR (PPI) SWEEP GENERATION AND COMPUTER TEST CIRCUITS
- 390. REPLACE/ADJUST THE SPECTRUM ANALYZER AND CONTROL LOGIC TEST CIRCUITS
- 391. REPLACE/ADJUST THE AUTOMATED DATA PROCESSING (ADP) POWER DISTRIBUTION CIRCUITS
- 392. REPLACE THE PUNCH TAPE READER
- 393. REPLACE THE OUTPUT PRINTER
- 394. REPLACE/ADJUST THE IMPROVED HIGH POWER ILLUMINATOR RADAR (IHIPIR) RADAR SET CONTROL
- 395. REPLACE/ADJUST THE IPCP-IHIPIR-ICMAR-ADP/TDECC INTERFACE CIRCUITS
- 396. REPLACE/ADJUST IROR-IBCC-ADP-ICC-IPAR INTERFACE CIRCUITS

- 397. REPLACE/ADJUST THE IFF RECEIVER/TRANSMITTER
- 398. REPLACE THE IFF ANTENNA CONTROL
- 399. REPLACE/ADJUST THE IFF PROCESSOR
- 400. REPLACE/ADJUST THE IFF CONTROL BOX
- 401. REPLACE THE IFF ANTENNA PEDESTAL
- 402. REPLACE/ADJUST CODER/DECODER GROUP POWER DISTRIBUTION
- 403. REPLACE/ADJUST BATTERY TERMINAL EQUIPMENT
- 404. REPLACE/ADJUST AUXILLARY CONTROL BOX
- 405. REPLACE 320, 285, AND 50 VDC POWER SUPPLY
- 406. REPLACE HIGH VOLTAGE REGULATOR
- 407. REPLACE/ADJUST BRIDGE NULLING AMPLIFIER AND CAVITY TUNER
- 408. REPLACE/ADJUST RANGE AND CODING AMPLIFIER OSCILLATOR
- 409. REPLACE/ADJUST AZIMUTH OR ELEVATION CONTROL AMPLIFIER
- 410. REPLACE/ADJUST THE HIGH VOLTAGE POWER SUPPLY
- 411. REPLACE/ADJUST THE RANGE AND CODING OSCILLATOR
- 412. REPLACE/ADJUST THE RF MODULATOR OSCILLATOR
- 413. REPLACE THE CALIBRATOR STANDARD
- 414. REPLACE/ADJUST THE MAIN POWER AND FILAMENT SUPPLY CIRCUITS
- 415. REPLACE THE TRANSMITTER FUNCTION CIRCUITS
- 416. REPLACE/ADJUST THE LOW VOLTAGE SUPPLY CIRCUITS
- 417. REPLACE/ADJUST THE RECEIVER CIRCUITS
- 418. REPLACE/ADJUST THE RADAR SET GROUP CIRCUITS
- 419. REPLACE/ADJUST THE SIGNAL PROCESSOR CIRCUITS
- 420. REPLACE/ADJUST TRANSMITTER LOW VOLTAGE POWER SUPPLY
- 421. REPLACE/ADJUST RANGE AND AZIMUTH COMPUTER

- 422. REPLACE/ADJUST SIMULATOR CONTROL GROUP
- 423. REPLACE/ADJUST SIGNAL COMPARATOR
- 424. REPLACE/ADJUST TRACKER I AND II
- 425. REPLACE THE SIMULATOR CONTROL GROUP CIRCUITS
- 426. CLEAN EYELETS/TERMINALS PRIOR TO SOLDERING
- 427. SOLDER TERMINALS
- 428. SOLDER CONNECTOR PINS
- 429. TEST SEMICONDUCTOR DIODE CIRCUITS
- 430. TEST BASIC TRANSISTOR CIRCUITS
- 431. INSPECT HAWK MISSILE FOR SURFACE DAMAGE
- 432. PERFORM SAFETY AND ARMING TEST AID (SATA) CHECK
- 433. REPLACE/ADJUST COMMON CONFIGURATION AMPLIFIERS
- 434. TROUBLESHOOT RC COUPLED TRANSISTOR AMPLIFIERS
- 435. INSTALL COAXIAL CABLE ON CONNECTOR
- 436. REMOVE/REPLACE TUBING ON A HYDRAULIC SYSTEM
- 437. REMOVE/INSTALL THREAD INSERTS
- 438. PERFORM CABLE LACING OPERATION
- 439. TRACE SIGNAL FLOW THROUGH ELECTRONIC SCHEMATIC AND WIRING DIAGRAMS
- 440. CHECK/SERVICE IN SHOP 8 TOOLS/EQUIPMENT
- 441. OPERATE LAUNCHER WITH LOCAL CONTROL UNIT
- 442. INSPECT LAUNCHER HYDRAULIC PUMP FOR PROPER OPERATION
- 443. REMOVE/INSTALL LAUNCHER HYDRAULIC PUMP
- 444. REMOVE/INSTALL EQUIPMENT RACK
- 445. REMOVE/INSTALL BLOWER ASSEMBLY

- 446. INSPECT BLOWER ASSEMBLY FOR PROPER OPERATION
- 447. REMOVE/INSTALL AZIMUTH DRIVE AND DATA ASSEMBLY COMPONENTS
- 448. INSPECT AZIMUTH DRIVE AND DATA ASSEMBLY COMPONENTS FOR PROPER OPERATION
- 449. REMOVE/INSTALL FORWARD ROTATING SECTOR ASSEMBLY RELEASE MECHANISM
- 450. INSPECT FORWARD ROTATING SECTOR ASSEMBLY RELEASE MECHANISM FOR PROPER OPERATION
- 451. REMOVE/INSTALL REAR SUPPORT ASSEMBLY
- 452. INSPECT REAR SUPPORT ASSEMBLY FOR SERVICEABILITY
- 453. REPAIR/ADJUST REAR SUPPORT ASSEMBLY
- 454. ADJUST LAUNCHER SYNCHRO CIRCUITS
- 455. REPLACE/ADJUST SHOOT-AROUND CIRCUITS
- 456. REPLACE/ADJUST LAUNCHER FIRING AND CONTROL CIRCUITS
- 457. REPLACE/ADJUST FIRE AND CONTROL CIRCUITS
- 458. CHECK UMBILICAL FOR ELECTRICAL CONTINUITY
- 459. REMOVE/INSTALL ACTUATOR CONTROL ASSEMBLY
- 460. INSPECT ACTUATOR CONTROL ASSEMBLY FOR PROPER OPERATION
- 461. REPLACE/ADJUST LAUNCHER CONTROL UNIT
- 462. REPLACE ALIGNMENT TELESCOPE AND FIRE CUTOUT ASSEMBLY
- 463. ALIGN BOOM
- 464. BORESIGHT THE LAUNCHER
- 465. REPLACE THE AZIMUTH AND ELEVATION SERVO AMPLIFIER
- 466. REPLACE AZIMUTH SERVO GEAR TRAIN
- 467. REPLACE ELEVATION SERVO GEAR TRAIN
- 468. REPLACE CONTROL AMPLIFIER POWER SUPPLY

- 469. REPLACE/ADJUST ELEVATION CONTROL AMPLIFIER
- 470. REPLACE/ADJUST LOGIC CHASSIS
- 471. REPLACE LAUNCHER PROGRAMMER
- 472. ADJUST LAUNCHER TEST SET
- 473. REPLACE LOADER TRANSPORTER HYDRAULIC PUMP AND PUMP DRIVE
- 474. REMOVE LOADER SUPERSTRUCTURE
- 475. INSPECT LOADER SUPERSTRUCTURE FOR MALFUNCTIONS
- 476. REPLACE LOADER SUPERSTRUCTURE
- 477. TEST/ADJUST HOISTING BEAM LATCH
- 478. INSPECT IHIPIR AZIMUTH DRIVE GEARS FOR SERVICEABILITY
- 479. REPLACE IHIPIR AZIMUTH DRIVE BOX AND HOUSING ASSEMBLY
- 480. REPLACE IHIPIR AZIMUTH SYNCHRO DRIVE
- 481. BORESIGHT IHIPIR
- 482. REPAIR/REPLACE ALL LAUNCHERS MAIN HYDRAULIC SYSTEM VALVES AND COMPONENTS
- 483. REPAIR/REPLACE ALL COMPONENTS OF LAUNCHER BASE HYDRAULIC SYSTEM
- 484. REPAIR/REPLACE HYDRAULIC CYLINDERS ON LOADER
- 485. REPAIR/REPLACE TRACKS ON LOADER
- 486. CAN/UNCAN HAWK MISSILE
- 487. TROUBLESHOOT LAUNCHER WITH LAUNCHER TEST SET
- 488. REPAIR LAUNCHER POWER DISTRIBUTION SYSTEM
- 489. REPAIR IPAR POWER SUPPLY
- 490. REPAIR IPAR MAIN POWER CIRCUITS
- 491. REPAIR IPAR LOW VOLTAGE POWER SUPPLY CIRCUITS
- 492. REPAIR IPAR TRANSMITTER CIRCUITS

- 493. REPAIR IPAR SUMMATION BRIDGE TEST SET
- 494. REPAIR IPAR TRIGGER PULSE AMPLIFIER
- 495. REPAIR IPAR STALO POWER SUPPLY
- 496. REPLACE/ADJUST IPAR STALO POWER SUPPLY
- 497. REPAIR IPAR TUNING CIRCUITS
- 498. REPAIR VIEDO/STALO
- 499. REPAIR PRESELECTOR SERVO
- 500. REPAIR THE IPAR AFC (AUTOMATIC FREQUENCY CONTROL) AMPLIFIER
- 501. REPAIR THE IPAR RECEIVER CIRCUITS
- 502. REPAIR THE IPAR CONTINUOUS WAVE (CW) JAM NORMALIZER
- 503. REPAIR THE IPAR RECEIVER SWITCH
- 504. REPAIR THE IPAR SIGNAL GENERATOR
- 505. REPAIR THE IPAR INTERFERENCE BLANKER
- 506. REPAIR THE IPAR MOVING TARGET INDICATOR (MTI) AMPLIFIER
- 507. REPAIR THE IPAR CARRIER GENERATOR
- 508. REPAIR THE IPAR DELAY AMPLIFIERS (LONG OR SHORT)
- 509. REPAIR THE IPAR VIDEO AMPLIFIER AND MULTIVIBRATOR
- 510. REPAIR THE IPAR VIDEO INTEGRATOR
- 511. REPAIR THE IPAR TEST GENERATOR
- 512. REPAIR THE IPAR INDICATOR AND ANTENNA POSITIONING CIRCUITS
- 513. REPAIR THE IPAR RADAR SET CONTROL
- 514. REPAIR THE IPAR RANGE MARK GENERATOR
- 515. REPAIR THE IROR POWER CIRCUITS
- 516. REPAIR THE IROR TRANSMITTER MAGNETRON FREQUENCY CIRCUITS
- 517. REPAIR THE IROR LOCAL OSCILLATOR CONTROL CIRCUITS

- 518. REPAIR THE IROR AFC AMPLIFIER
- 519. REPAIR THE IROR RECEIVER
- 520. REPAIR THE IROR BACK BIAS AMPLIFIER
- 521. REPAIR THE IROR RANGE INDICATOR CIRCUITS
- 522. REPAIR THE IROR SWEEP GENERATOR
- 523. REPAIR THE IROR ANTENNA POSITIONING CIRCUITS
- 524. REPAIR THE IROR PARALLAX CIRCUITS
- 525. REPAIR THE IROR AZIMUTH OR ELEVATION PARALLAX COMPUTER
- 526. REPAIR THE IROR AZIMUTH OR ELEVATION CONTROL AMPLIFIER
- 527. REPAIR THE IROR CONTROL AMPLIFIER AND AMPLIFIER COMPUTER TEST SET
- 528. REPAIR THE IROR RADAR SET CONTROL
- 529. REPAIR THE HIGH FREQUENCY CONSOLE (HFC) POWER SUPPLIES
- 530. REPAIR THE HFC AC/DC DISTRIBUTION CIRCUITS
- 531. REPAIR HFC WIRING
- 532. REPAIR HFC DUMMY LOAD
- 533. REPAIR HFC DIGITAL MULTIMETERS
- 534. REPAIR HFC 50 MHZ COUNTER
- 535. REPAIR HFC OSCILLOSCOPE
- 536. REPAIR THE HFC AMPLIFIER INDICATOR
- 537. REPAIR THE HFC DUAL PULSE GENERATOR
- 538. REPAIR THE HFC MULTIFUNCTION GENERATOR
- 539. REPAIR THE HFC SIGNAL GENERATOR
- 540. REPAIR THE HFC THERMAL NOISE GENERATOR
- 541. REPAIR THE CALIBRATOR STANDARD

- 542. REPAIR DECKE FIX AMPLIFIER
- 543. REPAIR COHD OSCILLATOR
- 544. REPAIR INTERMEDIATE FREQUENCY (IF) AMPLIFIER
- 545. REPAIR REFERENCE REGULATOR
- 546. REPAIR HIGH VOLTAGE POWER SUPPLY
- 547. REPAIR TRANSMITTER LOW VOLTAGE POWER SUPPLY
- 548. REPAIR 320, 285, AND 50 VDC POWER SUPPLY
- 549. REPAIR HIGH VOLTAGE REGULATOR
- 550. REPAIR BRIDGE BILLING AMPLIFIER AND CAVITY TUNER
- 551. REPAIR RANGE AND CODING AMPLIFIER OSCILLATOR
- 552. REPAIR AZIMUTH OR ELEVATION CONTROL AMPLIFIER
- 553. REPAIR RANGE AND CONTROL AMPLIFIER
- 554. REPAIR RANGE AND AZIMUTH COMPUTER
- 555. REPAIR ICWAR RADAR SET CONTROL
- 556. REPAIR IHIPIR RADAR SET CONTROL
- 557. REPAIR SIMULATOR CONTROL GROUP
- 558. REPAIR SIGNAL COMPARATOR
- 559. REPAIR TRACKER I AND II
- 560. REPAIR THE HIGH VOLTAGE POWER SUPPLY
- 561. REPAIR THE RANGE AND CODING OSCILLATOR
- 562. REPAIR THE JAM COMPARATOR
- 563. REPAIR THE VERTICAL AMPLIFIER AND THRESHOLD CONTROL
- 564. REPAIR THE RADIO FREQUENCY (RF) MODULATOR OSCILLATOR
- 565. REPAIR THE AUXILIARY MICROWAVE CONSOLE
- 566. OPERATE THE CALIBRATOR STANDARD

- 567. REPAIR THE RADAR TARGET SIMULATOR
- 568. REPAIR THE PHASE MODULATOR SIMULATOR
- 569. REPAIR THE MAGNETRON SIMULATOR DUMMY LOAD
- 570. REPAIR THE MICROWAVE CALIBRATOR
- 571. REPAIR THE MAGNETRON TEST SET
- 572. REPAIR THE MAIN POWER AND FILAMENT SUPPLY CIRCUITS
- 573. REPAIR THE TRANSMITTER FUNCTION CIRCUITS
- 574. REPAIR THE LOW VOLTAGE SUPPLY CIRCUITS
- 575. REPAIR THE RECEIVER CIRCUITS
- 576. REPAIR THE SIMULATOR CONTROL GROUP CIRCUITS
- 577. REPAIR THE RADAR SET GROUP CIRCUITS
- 578. REPAIR THE SIGNAL PROCESSOR CIRCUITS
- 579. REPAIR THE DISPLAY SYSTEM CIRCUITS
- 580. REPAIR/ADJUST POWER SUPPLY TEST PANEL
- 581. REPAIR/ADJUST ELECTRICAL TEST PANEL
- 582. REPAIR/ADJUST VOLTAGE PROTECTION RELAY ASSEMBLY
- 583. REPAIR/ADJUST AC-DC PROTECTIVE PANEL
- 584. REPAIR/ADJUST MOD-DEMOD POWER SUPPLY
- 585. REPAIR/ADJUST MOD-DEMOD VOLTAGE REGULATOR
- 586. REPAIR/ADJUST COORDINATE DATA TRANSMITTER UNIT
- 587. REPAIR/ADJUST COORDINATE DATA MODULATOR
- 588. REPAIR/ADJUST COORDINATE DATA ENCODER
- 589. REPAIR/ADJUST TRANSMITTER PROGRAM GENERATOR
- 590. REPAIR/ADJUST TRANSMITTER COORDINATE MULTIPLEXER
- 591. REPAIR/ADJUST AUTOMATIC ZERO SET

- 592. REPAIR/ADJUST DIRECT CURRENT AMPLIFIER
- 593. REPAIR/ADJUST TRANSMITTER DATA PROCESSING SECTION
- 594. REPAIR/ADJUST TRANSMITTER OUTPUT SECTION
- 595. REPAIR/ADJUST READY TONE CONTROL
- 596. REPAIR/ADJUST FSM LEVEL CHANGER
- 597. REPAIR/ADJUST FSM MODULATOR GATE AND CONTROL
- 598. REPAIR/ADJUST FSM FREQUENCY DIVIDER
- 599. REPAIR/ADJUST COORDINATE DATA RECEIVER
- 600. REPAIR/ADJUST COORDINATE DATA DECODER
- 601. REPAIR/ADJUST RECEIVER INPUT SECTION
- 602. REPAIR/ADJUST REMOTE START CIRCUITS
- 603. REPAIR/ADJUST AMPLIFIER SYNCHRONIZER
- 604. REPAIR/ADJUST DATA INPUT FILTER AND FIRST LIMITER AMPLIFIER
- 605. REPAIR/ADJUST SECOND LIMITER AMPLIFIER AND FREQUENCY
DISCRIMINATOR
- 606. REPAIR/ADJUST DATA LOGIC AMPLIFIER
- 607. REPAIR/ADJUST 1500 HZ DETECTOR
- 608. REPAIR/ADJUST REMOTE START DETECTOR
- 609. REPAIR/ADJUST RECEIVER PROGRAMMER
- 610. REPAIR/ADJUST RECEIVER DATA PROCESSING SECTION
- 611. REPAIR/ADJUST SUBSEQUENCER
- 612. REPAIR/ADJUST FILTER AMP
- 613. REPAIR/ADJUST ELECTRONIC CONTROL UNIT
- 614. REPAIR/ADJUST COUNTER SWITCHER
- 615. REPAIR/ADJUST LINE AMPLIFIER

- 616. REPAIR/ADJUST REGENERATOR REPEATER
- 617. REPAIR/ADJUST DATA MODULATOR
- 618. REPAIR/ADJUST CODER-DECODER
- 619. REPAIR/ADJUST RELAY ASSEMBLY
- 620. REPAIR/ADJUST AZIMUTH SYNCHRO AMPLIFIER
- 621. REPAIR/ADJUST RANGE SWEEP GENERATOR
- 622. REPAIR/ADJUST TRIGGER REGENERATOR AND RANGE CALIBRATOR
- 623. REPAIR/ADJUST GATE AND TRIGGER GENERATOR
- 624. REPAIR/ADJUST DIGITAL MARKER GENERATOR
- 625. REPAIR/ADJUST ANALOG MARKER GENERATOR
- 626. REPAIR/ADJUST SUBSTITUTION GATES
- 627. REPAIR/ADJUST DEFLECTION AMPLIFIER
- 628. REPAIR/ADJUST TRACKBALL
- 629. REPAIR/ADJUST CONTROL PANEL A
- 630. REPAIR/ADJUST CONTROL PANEL B
- 631. REPAIR/ADJUST CONTROL PANEL C
- 632. REPAIR/ADJUST BLANKING AND INTENSITY AMPLIFIER
- 633. REPAIR/ADJUST INDICATOR COUPLER
- 634. REPAIR/ADJUST ELECTRONIC FOCUS CONTROL
- 635. REPAIR/ADJUST CRT POWER SUPPLY
- 636. REPAIR/ADJUST DEFLECTION AMPLIFIER POWER SUPPLY
- 637. REPAIR/ADJUST CONSOLE CABINET
- 638. REPAIR/ADJUST COMMUNICATIONS POWER PROTECTOR
- 639. REPAIR/ADJUST OPERATORS TELEPHONE UNIT
- 640. REPAIR/ADJUST MANUAL TELEPHONE SWITCHBOARD

- 641. REPAIR/ADJUST TELEPHONE RELAY PANEL
- 642. REPAIR/ADJUST WIRE CHIEF TEST PANEL
- 643. REPAIR/ADJUST TELEPHONE CONFERENCE BRIDGE
- 644. REPAIR/ADJUST COMMUNICATION TEST PANEL
- 645. REPAIR/ADJUST COMMUNICATIONS LINE PROTECTOR
- 646. REPAIR/ADJUST OC COMMUNICATIONS JUNCTION BOX
- 647. REPAIR/ADJUST ALERT MONITOR PANEL
- 648. REPAIR/ADJUST OC SHELTER WIRING (HARNESSES)
- 649. REPAIR/ADJUST INTERIOR LIGHTING AND BLACKOUT CONTROL
- 650. REPAIR/ADJUST +150V POWER SUPPLY
- 651. REPAIR/ADJUST -26V DELAY POWER SUPPLY
- 652. REPAIR/ADJUST SMALL PACKAGES (A, B, C, D, E, J, K, L, & M)
- 653. REPAIR/ADJUST LARGE PACKAGES SUCH AS JK AND KK
- 654. REPAIR THE IBCC POWER DISTRIBUTION SYSTEM
- 655. REPAIR THE TCC CIRCUITS
- 656. REPAIR THE TCC/FC VIDEO MIXER
- 657. REPAIR THE TCC LONG SWEEP GENERATOR
- 658. REPAIR THE CLAMP GATE GENERATOR
- 659. REPAIR THE ELECTRONIC CLAMP ASSEMBLY
- 660. REPAIR THE DEFLECTION AMPLIFIER
- 661. REPAIR THE SYMBOL MULTIVIBRATOR
- 662. REPAIR THE IBCC TIMING CIRCUITS
- 663. REPAIR THE SYMBOL GENERATOR
- 664. REPAIR THE FIRE CONTROL GROUP
- 665. REPAIR THE FC SHORT SWEEP GENERATOR

- 666. REPAIR THE RANGE ELECTRONIC CONTROL AMPLIFIER
- 667. REPAIR THE CONTINUOUS WAVE TARGET DIRECTION CONTROL (CWTDC) CIRCUITS
- 668. REPAIR THE SCAN SERVO ASSEMBLY
- 669. REPAIR THE SCAN SERVO AMPLIFIER
- 670. REPAIR THE IBCC TEST CIRCUITS
- 671. REPAIR THE TCO/TCA COMMUNICATIONS UNIT
- 672. PERFORM ADP/TDECC CHECK PROCEDURE
- 673. REPAIR THE TDECC POWER DISTRIBUTION CIRCUITS
- 674. REPAIR THE CONTROL AND ENGAGEMENT EVALUATION CIRCUITS
- 675. REPAIR THE IPCP PRESENTATION SYSTEM
- 676. REPAIR THE TDECC TIMING AND SYMBOL GENERATION SYSTEM
- 677. REPAIR THE DOPPLER AND COMMUNICATION SYSTEM CIRCUITS
- 678. REPAIR THE TEST MONITOR CONTROL CIRCUITS
- 679. REPAIR THE CATASTROPHIC FAIL TEST CIRCUITS
- 680. REPAIR THE TIMING AND SIGNAL GENERATION TEST CIRCUITS
- 681. REPAIR THE PPI SWEEP GENERATION AND COORDINATE COMPUTER TESTS CIRCUITS
- 682. REPAIR THE SPECTRUM ANALYZER AND CONTROL LOGIC TEST CIRCUITS
- 683. REPAIR THE ADP POWER DISTRIBUTION CIRCUITS
- 684. ANALYZE COMPUTER PROGRAMMING UNIT (CPU) WORD FORMATS
- 685. REPAIR THE PUNCH TAPE READER
- 686. PERFORM PROGRAMMING PROCEDURES IN INFORMATION COORDINATION CENTRAL (ICC)
- 687. PERFORM PROGRAMMING PROCEDURES IN IPCP
- 688. ANALYZE CIRCUIT OPERATION USING LOGIC DIAGRAMS

- 689. REPAIR THE OUTPUT PRINTER
- 690. REPAIR THE COMMUNICATIONS CIRCUITS
- 691. REPAIR THE IPCP/IHIP/ICWAR/ADP/TDECC INTERFACE CIRCUITS
- 692. REPAIR IROR-IBCC-ADP-IPAR INTERFACE CIRCUITS
- 693. REPAIR THE IFF SYNCHRONIZER
- 694. REPAIR THE IFF RECEIVER/TRANSMITTER
- 695. REPAIR THE IFF ANTENNA CONTROL
- 696. REPAIR THE IFF PROCESSOR
- 697. REPAIR THE IFF CONTROL BOX
- 698. REPAIR THE IFF ANTENNA PEDESTAL
- 699. TEST IFF WIRING
- 700. REPAIR CODER/DECODER GROUP POWER DISTRIBUTION
- 701. REPAIR BATTERY TERMINAL EQUIPMENT
- 702. CONVERT IPCP TO ICC OPERATION
- 703. REPAIR ICC/IPCP AUXILIARY CONTROL BOX
- 704. SOLDER MINATURE TUBE SOCKETS
- 705. ISOLATE/REPAIR MALFUNCTIONS IN COMMON CONFIGURATION
AMPLIFIERS
- 706. FABRICATE TUBING FOR A HYDRAULIC SYSTEM
- 707. PREPARE MAINTENANCE FORMS AND RECORDS
- 708. INSPECT CALIBRATOR STANDARD FOR PROPER OPERATION
- 709. REPAIR EQUIPMENT RACK
- 710. REPAIR/ADJUST SECTOR ASSEMBLY RELEASE MECHANISM
- 711. REPAIR SYNCHRO CIRCUITS
- 712. REPAIR SHOOT-AROUND CIRCUITS

- 713. REPAIR LAUNCHER FIRING AND CONTROL CIRCUITS
- 714. REPAIR FIRE AND CONTROL CIRCUITS
- 715. REPAIR LAUNCHER CONTROL UNIT
- 716. REPAIR ELEVATION DATA MECHANISM
- 717. TEST/REPAIR THE AZIMUTH AND ELEVATION SERVO AMPLIFIER
- 718. REPAIR AZIMUTH SERVO GEAR TRAIN
- 719. REPAIR ELEVATION SERVO GEAR TRAIN
- 720. REPAIR CONTROL AMPLIFIER POWER SUPPLY
- 721. REPAIR ELEVATION CONTROL AMPLIFIER
- 722. REPAIR LOGIC CHASSIS
- 723. REPAIR LAUNCHER PROGRAMMER
- 724. REPAIR LAUNCHER TEST SET
- 725. REPAIR LOADER TRANSPORTER ADJUSTMENT PANEL
- 726. REPAIR THE IHIPIR AZIMUTH DRIVE BOX AND HOUSING ASSEMBLY
- 727. REPAIR THE IHIPIR AZIMUTH SYNCHRO DRIVE
- 728. ADJUST THE IHIPIR ELEVATION DRIVE CLUTCH
- 729. REPLACE IROR CABLE AND RING ASSEMBLY
- 730. REPAIR IROR ROTATING HEAD ASSEMBLY
- 731. REPAIR IROR HEAD AND TUBE ASSEMBLY
- 732. REPLACE IROR ROTATING HEAD SYNCHRO
- 733. BORESIGHT IROR
- 734. REPLACE IPAR QK-629 STABILITRON CAVITY TUNE DRIVE BELT
- 735. INSPECT IPAR QK-629 STABILITRON CAVITY TUNE DRIVE BELT FOR SERVICEABILITY
- 736. REPAIR IPAR STABILIZATION SYSTEM

- 737. REPAIR IPAR TURN TABLE
- 738. REPAIR IPAR COOLING SYSTEM INTERLOCK
- 739. REPLACE CW RADAR TORQUE TUBE ASSEMBLY
- 740. REPAIR LAUNCHER SECTION SECTION CONTROL BOX
- 741. REPAIR/REPLACE LEVELING JACKS ON ALL HAWK END ITEMS
- 742. REPAIR/REPLACE BRAKES ON ALL HAWK END ITEMS
- 743. REPAIR/REPLACE TRANSFER CASE ON LOADER
- 744. REPAIR/REPLACE ENGINE ON LOADER
- 745. REPAIR/REPLACE TRANSMISSION ON LOADER
- 746. PERFORM TUNEUP ON LOADER
- 747. REPAIR/REPLACE LOADER ELECTRICAL SYSTEM
- 748. REPAIR/REPLACE LOADER FINAL DRIVE
- 749. REPLACE MISSILE LATCHES ON PALLET
- 750. REPAIR/REPLACE COMPONENTS ON IPAR COOLING SYSTEM
- 751. ADJUST/REPAIR ICWAR ANTENNA DRIVE
- 752. CHECK/SERVICE/REPAIR SHOP 5 HYDRAULIC CONSOLE
- 753. REPAIR HYDRAULIC COMPONENTS ON HYDRAULIC CONSOLE
- 754. PERFORM DAILY MAINTENANCE ON LOADER
- 755. PERFORM WEEKLY MAINTENANCE ON LOADER
- 756. PERFORM MONTHLY MAINTENANCE ON LOADER
- 757. PERFORM QUARTERLY MAINTENANCE ON LOADER
- 758. SUPERVISE PERSONNEL REPLACING/REPAIRING IBCC COMPONENTS
- 759. SUPERVISE PERSONNEL REPLACING/REPAIRING IPCP COMPONENTS
- 760. SUPERVISE PERSONNEL REPLACING/REPAIRING ICC COMPONENTS
- 761. SUPERVISE PERSONNEL REPLACING/REPAIRING IPAR COMPONENTS

- 762. SUPERVISE PERSONNEL REPLACING/REPAIRING IRCR COMPONENTS
- 763. SUPERVISE PERSONNEL REPLACING/REPAIRING ICWAR COMPONENTS
- 764. SUPERVISE PERSONNEL REPLACING/REPAIRING IHIPIR COMPONENTS
- 765. SUPERVISE PERSONNEL REPLACING/REPAIRING ILCHR COMPONENTS
- 766. CLOSE OUT ERO'S
- 767. PREPARE UNSERVICEABLE EQUIPMENT REPORTS (UER)
- 768. REVIEW ERO FOR CORRECTNESS AND COMPLETENESS
- 769. REVIEW REPAIR PARTS REQUISITIONS FOR ACCURACY
- 770. INSTRUCT/TRAIN PERSONNEL ON THE OPERATION OF THE LOADER
- 771. ADMINISTER TEST ON THE LOADER
- 772. CLOSE OUT ERO
- 773. PREPARE UNSERVICEABLE EQUIPMENT REPORT (UER)
- 774. VERIFY ENTRIES IN SHOP RECORDS UPON COMPLETION OF MAINTENANCE
- 775. RECORD MAINTENANCE PERFORMED AND REPAIR PARTS USED ON TACTICAL EQUIPMENT REPAIR ORDER (ERO)
- 776. REVIEW ERO FOR CORRECTNESS AND COMPLETENESS
- 777. VERIFY COMPLETION OF EROS AND ACCOMPANYING RECORDS FOR EQUIPMENT BEING INDUCTED INTO REPAIR ACTIVITY
- 778. SCREEN REPAIR PARTS REQUISITIONS FOR ACCURACY
- 779. MONITOR CONTROLLED ITEMS PROGRAM
- 780. MANAGE QUALITY ASSURANCE AND CONTROL PROGRAMS
- 781. NOMINATE FOR EVACUATION, EQUIPMENT WHICH MEETS ESTABLISHED CRITERIA FOR REPLACEMENT AND EVACUATION PROGRAM (R&E)
- 782. PREPARE ERO SHOPPING LIST
- 783. PREPARE REQUISITIONS FOR REPAIR PARTS

- 784. ESTABLISH PROCEDURES FOR CONTROL OF TOOLS AND TEST EQUIPMENT
- 785. VERIFY ENTRIES IN EQUIPMENT RECORDS UPON COMPLETION OF MAINTENANCE
- 786. PREPARE RECOVERABLE ITEMS REPORT (R&E)
- 787. PREPARE REPLACEMENT AND EVACUATION REPORT (R&E)
- 788. MONITOR ERO FOR PROGRESSION THROUGH MAINTENANCE/SUPPLY PROCESS
- 789. PREPARE REQUISITIONS FOR SHOP EQUIPMENT AND SPECIAL TOOLS
- 790. PREPARE MAINTENANCE RELATED CORRESPONDENCE
- 791. MONITOR INPUT TO THE MARINE CORPS INTEGRATED MAINTENANCE MANAGEMENT SYSTEM (MIMMS)
- 792. CONTROL ISSUES FROM PARTS LAYETTES
- 793. CONTROL ISSUE OF REPAIR PARTS
- 794. PROCESS EQUIPMENT TO FLOAT, EVACUATION AND WASHOUT IN LIEU OF REPAIR
- 795. COMPLETE COMPLETE CONSOLIDATED MEMO RECEIPT (OMR) TO ACCOUNT FOR INVENTORY OF SHOP EQUIPMENT
- 796. PREPARE FORMS NECESSARY FOR EVACUATION, FLOAT AND WASHOUT IN LIEU OF REPAIR
- 797. STOCK PREEXPENDED BINS
- 798. INITIATE FOLLOW UP ACTION ON REPAIR PARTS REQUISITIONS
- 799. PREPARE FORMS NECESSARY FOR DISPOSAL OF EXCESS AND UNSERVICEABLE SHOP EQUIPMENT
- 800. PREPARE TACTICAL EQUIPMENT REPAIR ORDER (ERO)
- 801. MAINTAIN PUBLICATIONS IN A TECHNICAL LIBRARY
- 802. REQUISITION TECHNICAL PUBLICATIONS
- 803. SUBMIT RECOMMENDED CHANGES TO THE UNIT T/A FOR PUBLICATION

1

NOW THAT YOU HAVE FOUND ALL THE TASKS THAT YOU PERFORM IN YOUR
PRESENT BILLET AND HAVE FILLED IN THE APPROPRIATE CIRCLES,
READ THE FOLLOWING INSTRUCTIONS ON HOW TO TIME RATE THE
TASKS YOU PERFORM.

PART II - TASK SECTION (CONTINUED)

INSTRUCTIONS FOR TIME RATING THE TASKS YOU HAVE INDICATED YOU PERFORM

YOU ARE NOW READY TO TIME RATE EACH TASK THAT YOU HAVE MARKED THAT YOU CURRENTLY PERFORM. TO RATE THE RELATIVE AMOUNT OF TIME SPENT ON EACH TASK, YOU MUST FIRST DECIDE HOW MUCH TIME YOU SPEND ON EACH TASK. THEN COMPARE THIS TIME WITH THE AMOUNT OF TIME SPENT ON EACH OF THE OTHER TASKS THAT YOU HAVE CHECKED.

RECORD THE RELATIVE TIME SPENT FOR EACH TASK THAT YOU HAVE MARKED USING THE "SEVEN-POINT" TIME SPENT SCALE SHOWN BELOW.

TIME SPENT

1. VERY LITTLE
2. BELOW AVERAGE
3. SLIGHTLY BELOW AVERAGE
4. AVERAGE
5. SLIGHTLY ABOVE AVERAGE
6. ABOVE AVERAGE
7. VERY MUCH

REMEMBER, IF YOU SPEND VERY MUCH TIME PERFORMING A PARTICULAR TASK IN COMPARISON TO OTHER TASKS YOU PERFORM, THE TASK SHOULD BE RATED A 7 (VERY MUCH) IN THE RESPONSE BOOKLET. THE FOLLOWING EXAMPLES WILL SHOW YOU HOW TO MARK YOUR RESPONSES. THE FIRST TASK WAS DONE VERY MUCH. THE SECOND TASK WAS NOT CHECKED OR TIME RATED BECAUSE IT WAS NOT PERFORMED. THE THIRD TASK WAS RATED AS BEING PERFORMED BELOW AVERAGE.

TIME SPENT

1. VERY LITTLE
2. BELOW AVERAGE
3. SLIGHTLY BELOW AVERAGE
4. AVERAGE
5. SLIGHTLY ABOVE AVERAGE
6. ABOVE AVERAGE
7. VERY MUCH

E X A M P L E S

QUESTION BOOKLET

RESPONSE BOOKLET

TASK DONE

0001 TASK
0012 TASK
0035 TASK

●
0
●

0 0 0 1	1 2 3 4 5 6 ●
0 0 1 2	1 2 3 4 5 6 7
0 0 3 5	1 ● 3 4 5 6 7

TURN BACK TO PAGE 5 OF THE RESPONSE BOOKLET AND RECORD THE RELATIVE TIME SPENT FOR EACH TASK THAT YOU HAVE MARKED.

AGAIN, DO NOT TIME RATE TASKS YOU DO NOT PERFORM. DO NOT DARKEN MORE THAN ONE NUMBER FOR ANY TASK THAT YOU RATE.

AFTER YOU HAVE COMPLETED PART II YOU MAY CONTINUE ON TO PARTS IV AND V.

PART IV & V - WRITE-IN/REMARKS SECTIONS

INSTRUCTIONS FOR SECTIONS IV AND V OF THE RESPONSE BOOKLET:

THESE SECTIONS ASK FOR HAND WRITTEN COMMENTS, RECOMMENDATIONS AND SUGGESTIONS ABOUT YOUR TRAINING, MOS, AND JOB. YOU MUST WRITE ON THE TOP OF PAGE 15 YOUR RANK AND BILLET MOS.

HANDWRITTEN COMMENTS AND RECOMMENDATIONS RECEIVED FROM MARINES WHO HAVE PARTICIPATED IN SIMILAR SURVEYS HAVE BEEN EXTREMELY VALUABLE FOR PERSONNEL AND TRAINING MANAGERS. YOUR PARTICIPATION IN PROVIDING "FEEDBACK" TO THE MARINE CORPS ABOUT YOUR TRAINING, YOUR JOB, AND THIS QUESTIONNAIRE IS ENCOURAGED AND GREATLY APPRECIATED.

X X X X X X X X X X
0

WHEN YOU HAVE COMPLETED THESE FINAL 2 SECTIONS, RETURN YOUR 2 QUESTIONNAIRE AND RESPONSE BOOKLET TO THE ADMINISTRATOR.

THANK YOU FOR YOUR TIME AND PARTICIPATION IN THIS SURVEY. YOU CAN BE ASSURED THAT THE INFORMATION PROVIDED BY YOU, ALONG WITH YOUR PERSONAL COMMENTS AND RECOMMENDATIONS, WILL BE KEPT CONFIDENTIAL AND WILL BE USED TO IMPROVE THE MANPOWER AND TRAINING ASPECTS OF THE MARINE CORPS.